

### REMARKS

In the above-mentioned Office Action, claims 2-10 and 16-21 were allowed. Claim 15 was acknowledged to recite patentable subject matter, but objection was made to the claim for being dependent upon a rejected parent claim. And, claims 1 and 12-14 were rejected. Claim 1 was rejected under Section 103(a) over the combination of *Zimmermann, Kumar, and Ten Brink*. Claim 12 was rejected under Section 103(a) over the combination of *Zimmermann, Kumar, Ten Brink, and Chapman*. And, claims 13-14 were rejected under Section 103(a) over the combination of *Zimmermann, Kumar, Ten Brink, and Ling*.

The Applicant gratefully acknowledges the Examiner's allowance of claims 2-10 and 16-21, and indication of allowable subject matter of claim 15.

Responsive to the rejection of independent claim 1, the claim has been amended, as set forth herein, in manners believed better to distinguish the present invention over the cited combinations of references. Amendments have also been made to independent claim 17 and 21, but such amendments are not believed to affect the substance of the recitations.

In claim 1, the recitation of the first modulator has been amended now to recite that the antipodal signal formed thereat is selected from an antipodal value set. And, the recitation of the mapper has been amended now to recite that the selected dimension value is selected responsive to the antipodal signal.

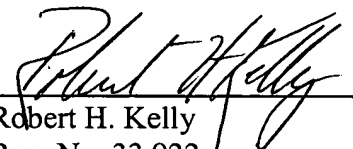
While the Examiner relies upon *Kumar* for disclosing a mapper, *Kumar* fails to disclose a mapper that forms the selected dimension value that is selected responsive to the antipodal signal. And, while *Ten Brink* was relied upon for disclosing antipodal signal, neither *Kumar* nor *Ten Brink* disclose a mapper in which the selected dimension value is selected responsive to the antipodal signal. As neither reference alone discloses such structure, no combination of the references can be made to form the mapper, as now recited. And, hence, no combination of the references can be formed to create the invention as now recited in independent claim 1. The claims dependent upon claim 1 include all of the limitations of their parent claim. These claims are believed to be patentably distinguishable over the cited combination of references used thereagainst for the same reasons as those given with respect to their parent claim.

Appl. No. 09/585,202  
Amdt. dated 21 July 2004  
Reply to Office Action of 21 April 2004

In light of the foregoing, claims 1 and 2-15 are believed to be in condition for allowance.  
Re-examination and reconsideration for allowance of these additional claims is respectfully  
requested.

Respectfully submitted,

Dated: 21 July 04

  
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